TDC 3000 PM/APM/HPM

Product Data Sheet

MC-PLAM02 51304362-150

Low-Level Analog Input Multiplexer

INPUT CHANNELS	SIGNAL FAMILIES	A/D RESOLUTION	LINEAR MILLIVOLT RANGE
32	**Thermocouple, RTD and linear millivolt**	**14 bits**	**0 to 100 mV**

Honeywell MC-PLAM02 51304362-150 is a coated low-level analog input multiplexer for the PM, APM and HPM I/O architecture. It acquires 32 thermocouple, RTD or linear millivolt signals using 14-bit conversion, providing a concentrated interface for low-level temperature and measurement inputs.

01 TECHNICAL DATA

Input channels	32
Signal families	Thermocouple, RTD and linear millivolt
A/D resolution	14 bits
Linear millivolt range	0 to 100 mV
Thermocouple resolution	10 microvolts per bit
Linear millivolt resolution	20 microvolts per bit
100/120-ohm RTD resolution	64 milliohms per bit
10-ohm RTD resolution	8 milliohms per bit
Input impedance	At least 2 megohms at 100 mV
Common-mode capability	250 V AC peak or +/-250 V DC

Honeywell MC-PLAM02 51304362-150; applicable product and connection sections.

02 ADDITIONAL PRODUCT DATA

Crosstalk rejection	120 dB
Total scan rate	32 samples per second
Per-channel scan rate	1 sample per second
Line synchronization	50 or 60 Hz
Maximum RTD lead resistance	15 ohms

03 PRODUCT FUNCTION

The multiplexer scans 32 samples per second, corresponding to one sample per second for each channel, with synchronization to either 50 or 60 Hz. Linear millivolt inputs cover 0 to 100 mV, and the measurement resolution depends on the selected signal family. RTD circuits support up to 15 ohms of lead resistance; the applicable field termination assembly determines the physical sensor connections.

04 SYSTEM COMPATIBILITY

Configure each channel for its actual thermocouple, RTD or millivolt signal and select the associated conversion characteristics. Use the matching terminal arrangement for the chosen sensor type, maintain thermocouple polarity and compensation, and keep RTD lead resistance within the 15-ohm limit.

05 REFERENCE

Honeywell MC-PLAM02 51304362-150; applicable product and connection sections.

AMIKON PRODUCT SUPPORT

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